



Engineering and Testing for EMC and Safety Compliance



Accredited under A2LA Testing Certificate # 2653.01

## **Radiated Test Data**

**for**

**Models: Pencil, Panic, Repeater**

**Resolution Engineering, LLC  
226 Locust Street, Suite 4  
Hudson, WI 54016**

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360 Herndon Parkway  
Suite 1400  
Herndon, VA 20170  
Tel: 703-689-0368 Fax: 703-689-2056

**Panic – Horizontal Peak**

Frequency (MHz)	Horizontal Peak (dBuV)	Site Correction Factor (dB/m)	Corrected Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)
319.5	98.8	-15.3	83.5	95.9	-12.4
639.0	64.2	-8.4	55.8	75.9	-20.1
958.5	60.1	-3.4	56.7	75.9	-19.2
1278.0	43.2	1.1	44.3	75.9	-31.6
1597.5	43.9	4.8	48.7	74.0	-25.3
1917.0	44.3	8.0	52.3	75.9	-23.6
2236.5	51.1	-1.3	49.8	74.0	-24.2
2556.0	46.7	-1.8	44.9	75.9	-31.0
2875.5	47.5	-0.4	47.1	74.0	-26.9
3195.0	50.2	-3.5	46.7	75.9	-29.2

**Panic – Vertical Peak**

Frequency (MHz)	Vertical Peak (dBuV)	Site Correction Factor (dB/m)	Corrected Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)
319.5	97.8	-15.3	82.5	95.9	-13.4
639.0	58.3	-8.4	49.9	75.9	-26.0
958.5	53.0	-3.4	49.6	75.9	-26.3
1278.0	40.0	1.1	41.1	75.9	-34.8
1597.5	41.2	4.8	46.0	74.0	-28.0
1917.0	40.0	8.0	48.0	75.9	-27.9
2236.5	49.5	-1.3	48.2	74.0	-25.8
2556.0	47.1	-1.8	45.3	75.9	-30.6
2875.5	46.2	-0.4	45.8	74.0	-28.2
3195.0	46.5	-3.5	43.0	75.9	-32.9

Rhein Tech Laboratories, Inc.  
360 Herndon Parkway, Suite 1400  
Herndon, VA 20170  
<http://www.rheintech.com>

Client: Resolution Engineering, LLC.  
Models: Pencil, Panic, Repeater  
Standards: FCC 15.231(b)  
Report #: 2009209



**Panic Front View**

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**Panic Back View**

**Test Equipment List**

Barcode	Manufacturer	Model	Part Type	Serial Number	Calibration Due
901516	Insulated Wire, Inc.	KPS-1503-2400-KPS	RF cable, 20'	NA	10/17/09
901517	Insulated Wire Inc.	KPS-1503-360-KPS	RF cable 36"	NA	10/17/09
901365	MITEQ	JS4-00102600-41-5P	Amplifier, 0.1-26 GHz, 30dB gain	N/A	3/4/10
900791	Chase	CBL6111B	Bilog antenna (30 MHz – 2000 MHz)	N/A	12/12/10
901215	Hewlett Packard	8596EM	Spectrum Analyzer (9kHz-12.8GHz)	3826A00144	10/23/09
900772	EMCO	3161-02	Horn Antenna (2 - 4 GHz)	9804-1044	6/14/10
900905	Rhein Tech Labs	PR-1040	OATS 1 Preamplifier 40dB (30 MHz – 2 GHz)	1006	4/10/10
900913	Hewlett Packard	85462A	EMI Receiver RF Section (9 KHz – 6.5 GHz)	3325A00159	6/8/10

Note: Limit/Distance: FCC 15.231(b)/3m

**Test Personnel:**

Daniel W. Baltzell  
 Test Engineer



Signature

June 29, 30, 2009  
 Dates Of Tests